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## What is Claimed:

1. A method for indicating the values of variables in a program under development, the method comprising:

detecting the position of a pointer on a computer display associated with an expression in the program under development;

reading and evaluating the expression;

displaying at least one item value in a first window, the item value associated with a variable in the expression, wherein an indication of at least one sub-item value associated with the variable is present; and

responding to a pointer request for a first sub-item value by displaying a first sub-item window containing the first sub-item value, the first sub-item window being separate from the first item window.

- 2. The method of claim 1, wherein, the first item value remains visible when the first subitem value is displayed, the displayed first sub-item value being accommodated to fit within a limited screen size by the use of at least one scroll control present in the first sub-item window.
- 3. The method of claim 1, further comprising:

responding to a pointer request for a second sub-item value by displaying a second sub-item window containing second sub-item values.

- 4. The method of claim 3, wherein the pointer request for a second sub-item value dismisses the first sub-item window before displaying the second sub-item window.
- 5. The method of claim 1, further comprising:

allowing the first item window and the first sub-item window to become transparent upon request, wherein displayed information can be viewed during transparency of the first item and first sub-item windows and wherein the transparency can be reversed upon request to again view the first item and first sub-item windows.

6. The method of claim 1, further comprising:

displaying a menu of operations that can be conducted to alter one or more of format and value of a variable being viewed.

- 7. The method of claim 6, wherein the format of a variable being viewed comprises one of simple text, hexadecimal, binary, decimal, text, HTML, XML, and custom editor/viewer.
- 8. A method of displaying related data sub-items corresponding to a cursor-selected object displayed on a computer screen, the method comprising:

determining that a cursor is positioned to point at the cursor-selected object on the computer screen;

loading the cursor-selected object;

evaluating the cursor-selected object to determine if the cursor-selected object:

has a variable value;

has related data sub-items; and

if the related data sub-items are capable of expansion into lower-tier sub-items;

assembling values for the cursor-selected object and the related data sub-items; and

displaying the values of the cursor-selected object and the related data sub-items along with an indication of a presence of the lower-tier sub-items.

- 9. The method of claim 8, wherein evaluating the cursor-selected object further comprises evaluating an expression associated with the cursor-selected object.
- 10. The method of claim 8, wherein displaying the values of the cursor-selected items and related sub-items further comprises displaying a variable associated with the cursor-selected object and values of the variables respectively.

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11. The method of claim 8, wherein the indication a presence of the lower-tier sub-items is a symbol to indicate that lower-tier sub-items exist and can be selected for display.

- 12. The method of claim 8, further comprising allowing the displayed values to become temporarily transparent allowing visual examination of underlying displayed information.
- 13. A system for displaying data tips related to a cursor-selected object displayed on a computer screen, the system comprising:

a computer screen to display a cursor-selected object and the data tips;

a processor for executing instructions corresponding to the method of:

determining that a cursor is positioned to point at the cursor-selected object on the computer screen;

loading and evaluating the cursor-selected object to determine if the cursor-selected object:

has a variable value;

has related data sub-items; and

if the related data sub-items are capable of expansion into lower-tier sub-items;

assembling values for the cursor-selected object and the related data sub-items; and

displaying the values of the cursor-selected object and related sub-items in the data tips using a window located adjacent to the cursor selected object, the window having an indication of the lower-tier sub items if the lower-tier sub-items exist.

14. The method of claim 13, wherein evaluating the cursor-selected object further comprises evaluating an expression associated with the cursor-selected object.

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15. The method of claim 13, wherein displaying the values of the cursor-selected items and related sub-items further comprises displaying a variable associated with the cursor-selected object and values of the variables respectively.

- 16. The method of claim 13, wherein the indication of the lower-tier sub-items is a symbol to indicate that lower-tier sub-items exist and can be selected for display.
- 17. The method of claim 13, wherein the data tip window becomes temporarily transparent upon request allowing visual examination of underlying displayed information.
- 18. A machine-readable medium having instructions therein, executable by a machine to perform a method comprising:

determining that a cursor is positioned to point at the cursor-selected object on the computer screen;

loading the cursor-selected object;

evaluating the cursor-selected object to determine if the cursor-selected object:

has a variable value;

has related data sub-items; and

if the related data sub-items are capable of expansion into lower-tier sub-items; assembling values for the cursor-selected object and the related data sub-items; and

displaying the values of the cursor-selected object and the related data sub-items along with an indication of a presence of the lower-tier sub-items.